What is claimed is:

An image forming process comprising the step of:
fixing a toner onto an electrophotographic image-receiving
sheet with the use of a belt fixing and smoothing apparatus to
thereby form an electrophotographic image,

wherein the belt fixing and smoothing apparatus comprising;

- a hot-pressing member,
- a belt member,
- a cooling device, and
- a cooling-releasing section,

wherein a total heat capacity per unit area in portions where the belt member, the toner, and the electrophotographic image-receiving sheet are in contact with one another is 840 J/K/m² or less.

- 2. An image forming process according to Claim 1, wherein the total heat capacity per unit area in portions where the belt member, the toner, and the electrophotographic image-receiving sheet are in contact with one another is 600 J/K/m^2 or less.
- 3. An image forming process according to Claim 1, wherein the belt member has a heat capacity per unit time of 8 J/K/sec or less and a thickness of 200 μm or less.

- 4. An image forming process according to Claim 3, therein the belt member has the heat capacity per unit time of 6.5 J/K/sec or less and a thickness of 150 μ m or less.
- 5. An image forming process according to Claim 1, wherein a total heat capacity per unit time of the belt member, the toner, and the electrophotographic image-receiving sheet is 20 J/K/sec or less.
- 6. An image forming process according to Claim 5, wherein the total heat capacity per unit time of the belt member, the toner, and the electrophotographic image-receiving sheet is 14 J/K/sec or less.
- 7. An image forming process according to Claim 1, wherein a heat capacity per unit area of the belt member in a portion where the belt member is in contact with the electrophotographic image-receiving sheet is 500 J/K/m^2 or less.
- 8. An image forming process according to Claim 7, wherein the heat capacity per unit area of the belt member in a portion where the belt member is in contact with the electrophotographic image-receiving sheet is 300 J/K/m^2 or less.
- 9. An image forming process according to Claim 1, wherein a temperature at an interface between a surface of the belt member

and a surface of the electrophotographic image-receiving sheet in the cooling-releasing section is at highest 20°C higher than the higher glass transition point Tg of a resin constituting a toner-image-receiving layer of the electrophotographic image-receiving sheet and of a binder resin constituting the toner.

- 10. An image forming process according to Claim 1, wherein the belt member comprises:
 - a heat-resistant support film, and a releasing layer arranged on the support film.
- 11. An image forming process according to Claim 10, wherein the releasing layer has a thickness of $1\mu m$ to $200\mu m$.
- 12. An image forming process according to Claim 10, wherein the releasing layer comprises at least one selected from silicone rubbers, fluorocarbon rubbers, fluorocarbonsiloxane rubbers, silicone resins, and fluorocarbon resins.
- 13. An image forming process according to Claim 10, wherein the releasing layer comprises one of a fluorocarbonsiloxane rubber layer alone or a combination of a silicone rubber layer and a fluorocarbonsiloxane rubber layer arranged on the silicone rubber layer.

- 14. An image forming process according to Claim 13, wherein the fluorocarbonsiloxane rubber has at least one of perfluoroalkyl ether groups and perfluoroalkyl groups in a principal chain thereof.
- 15. An image forming process according to Claim 1, wherein the electrophotographic image-receiving sheet comprises a support comprising:

a base; and

each at least one thermoplastic resin layer arranged on both sides of the base, and

wherein the total thickness of the thermoplastic resin layers is $3\,\mu m$ or more.

- 16. An image forming process according to Claim 15, wherein the base is raw paper having a thickness of $25\mu m$ to $300\mu m$.
- 17. An image forming process according to Claim 15, wherein the thermoplastic resin layers contain a polyolefin resin.
- 18. An image forming process according to Claim 1, wherein the electrophotographic image-receiving sheet comprises:

a double-sided laminated paper as a support, and

a toner-image-receiving layer arranged on at least one side of the support, the toner-image-receiving layer comprising a thermoplastic resin and having a thickness of 3 µm or more.

19. An image forming apparatus comprising:

fixing means for fixing a toner onto an electrophotographic image-receiving sheet with the use of a belt fixing and smoothing apparatus to thereby form an electrophotographic image,

wherein the belt fixing and smoothing apparatus comprising;

- a hot-pressing member,
- a belt member,
- a cooling device, and
- a cooling-releasing section,

wherein a total heat capacity per unit area in portions where the belt member, the toner, and the electrophotographic image-receiving sheet are in contact with one another is $840 \, J/K/m^2$ or less.

- 20. An image forming apparatus according to Claim 19, wherein the belt member has a heat capacity per unit time of 8 J/K/sec or less and a thickness of 200 μ m or less.
- 21. An image forming apparatus according to Claim 19, wherein a total heat capacity per unit time of the belt member, the toner, and the electrophotographic image-receiving sheet is 20 J/K/sec or less.

22. An image forming apparatus according to Claim 19, wherein a heat capacity per unit area of the belt member in a portion where the belt member is in contact with the electrophotographic image-receiving sheet is 500 J/K/m^2 or less.